

Gm1 promoter and use thereof - Nucleotide result

1/2 ページ

Nucleotide

Alphabet of Life

"Exhibit A"

Display Settings: GenBank

Gm1 promoter and use thereof

GenBank DD249890.1

FASTA Graphics

Comment Features Sequence

LOCUS DD249890 3871 bp DNA linear PAT 18-MAY-2006
 DEFINITION Gm1 promoter and use thereof.
 ACCESSION DD249890
 VERSION DD249890.1 GI:99025749
 KEYWORDS WO 2005108574-A/1. ← identical to SEQ ID No:1 of 10/593,2/6
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
 Sciurognathi; Muroidae; Muridae; Murinae; Mus; Mus.
 REFERENCE 1 (bases 1 to 3871)
 AUTHORS Oeda, K. and Takahashi, Y.
 TITLE Gm1 promoter and use thereof
 JOURNAL Patent: WO 2005108574-A 1 17-NOV-2005;
 SUMITOMO CHEMICAL COMPANY LIMITED
 COMMENT OS Mouse
 PN WO 2005108574-A/1
 PD 17-NOV-2005
 PF 15-MAR-2005 WO 2005JP005077
 PR 15-MAR-2004 JP 04P 072244
 PI kenji oeda,yasuhiko takahashi
 CC
 FH Key Location/Qualifiers.

FEATURES
 source Location/Qualifiers
 1..3871
 /organism="Mus musculus"
 /mol_type="unassigned DNA"
 /db_xref="taxon:10090"

ORIGIN

```

1 gctagcccca atatatatat gcagcacatg cactcctgat acctgcagaa gccagaagag
61 ggaattggat cccctgtaat tggagtacca aatggttggt agtggccaat tggggacggg
121 gaaccaggcc tgcacatcatg gcagcaagtg cctctaactg ctgagccatc tcttcagccc
181 taaaataaaa atgttttatt tacatgtatg aatgctctgt cttctatgca catcagaaga
241 ggaaccagat ctcatacagg atgggttgta agccaccatg tgggtttctg gaatggaact
301 caggaacctc ggaagaacac ccagtgcttt taaccactga gccatctctt taggccccat
361 aaagttaatt tgaatacaaa aaaatgaatg cttaatgtca gctgactgtt aaagtgtgct
421 gtcaaccctg gagtcttggt gatatagcag gtgtcaactc ttttagttac ttttctattg
481 ctgtgcacaa atgccatgac caacacaact tacagaagaa agagtttaat tgacttacag
541 tttaacacag ttagagtcca taatgttgga gcaaaagcat ggggtggcagc aggaacagct
601 gtagagctcac atctcaaac acaagcagga agtaaaacta gccgaagac tggtttaatc
661 ttttgaactc tcatgtgcag gaagccgggg cacaccaaa cctcctgtca tccccaggcc
721 gcactctctg ccttcggcct gtggatggag atgtaagctc taagctgcct gctttcgcca
781 tagacttcag ccttcaggaa atgtaagcct actttttctc gtttataact catggtgttt
841 ttatcatcac aacaggaagaa taataaaagt cgttttatag taacaaataa aatagctgcg
901 attcaaatc tttgtaactg ataatacata ttaagggcca tgatgtatg tgtaattgat
961 attttacaca gtacataggt taataaaagc atgggcatga tctcatagtg acttttatgt
1021 tgaaggcact acttgtgctc cttcaagact cttgtgacat aagatagagt atgttcgtta
1081 tcccaagaaa accaaacac tgcctctccg aaggctctga gtccaagtga cagcaaacac
1141 caggggttaa gagcactgac tgcctctccg aaggctctga gtccaagtga cagcaaacac
1201 attgtggttc acaaccatct gtaatgggat cgtgtgcctc cttctgtggt tcaataaacc
1261 atctgttaatg ggaatctggt cctctctctg gtgtgtctga agacagctagc agtgcactta
1321 gctataataa aaaaataatc ttggggccag gcaaccagga gctcctgtat tgaattccca
1381 gcaaccacat gatgtgctcac aacctgtaca gctacagtgt gctcactcat ataataaaaa
1441 taataataac tagagaaaaa aaagagagag aaagaaacta ccaactcttg gtcagtagga
1501 aggcacaatt agaaaaggcc tgaccagaat gaccttggtg gaagaaaggg cccagcttca
    
```

Gm1 promoter and use thereof - Nucleotide result

2/2 ページ

```

1561 aaaattgtgc tctgaactgg gcagtggttag cacatgectt taatcccaga ggcaggcaga
1621 tttctcaggtt caccggccagc ttgtgtctaca gagtgaattc cagaacagcc aggaactatac
1681 agaaaaaacc ttgtctaaaa egctaaaaata aataaaataa aataaaaatg tgcctctgac
1741 tctcatcatgca tgccatggcca agaggagcag ttgcgtgata tacatacata ttcatcataa
1801 acattcttttaa atgtattaga gctaccatat gacctagcca tctattacca ggtatatatc
1861 cagttaggctca gaaagaagcc taatgccatg agtcacattac ttcttttggg ctgtgttggtc
1921 cctgaagctcc caaaagcacc cccaacttta aaagccagta ttggtgctcc tgggtgcccc
1981 cctgaagatg gccataactc tgaagtacag ttgttgaaga aattggcgtg gccctactga
2041 cagcttccatc tctattggct agctttctta ggaaggtgct aagcatgcta caggagggct
2101 gaggaagtta tatctagggtg ttgtgtgtgt agagagagag agagagagac agacagacag
2161 acagatagac agacagacag acagacagac acagacagac agagagatag ggggtgggga
2221 gggggggggg agaggggag agaccaagaa ttcatgcagg gaggaagag aagaggggaa
2281 tgataatac acccaatttt tttaaaagta ctccctctcc cctctctccc catataaaga
2341 tcttctcaacc tttaacctct agcctctctc taagtgtctt ttgtttgttt tgtttgtttt
2401 ttgtggagag aggtgtgttt ttgttttttt gaggcgagat ttctctgtgt agccctggct
2461 gtcaactctgt agaccaggct ggctcgaaac ttgtcctccc cagtctggyg attaaaagcg
2521 tctgcacca cgcctccagg ccttagaagc cagagacgtt tggctccagg tgtgtccct
2581 gccctccag ggtccaaaca caagcagcct ggcatctgc atcctgtgac actctctgac
2641 cttgagttag acacaacaca caggcagcag cggttagtgt cagctagtat tagggccctg
2701 gagaacttcc cattgagact ctccactcct atctacagt gaccatgaaa tctatagctc
2761 gaagcagacc tgaagtatat accctcagtc ctgaggggcg ggcagctcca gtgacccccg
2821 cctctctatt ttctcttttt ttoacttttc atagccttcc tcttccaac tctgtcctgt
2881 cactctctgc ttccgacact gcccttcccc actgggctcc agggagctgt ggtggttgtc
2941 cctccagacc ttacggggtc ttctttgaca tagcggattg ttccactat tgtttctagc
3001 taagctggat gtatccatga taaagatcac acgcagcaca ggaagacca ttccgggaat
3061 ccttttttatt agacctaatg tcgcaatacc atggacacaa cgtgaaaagt agccgaaccc
3121 ccaattttata tagcccgag aaaggcatgg taagatgaca tcatgtaagt gaagaattgt
3181 atttgccccg atccccgaac agcctccagt tccacggccc tggcctctta ctgctctccc
3241 tctctgtgta aatgagaaga gcttcagagt catctaatag ccaccaaatc ctatcttgtc
3301 gaagatactg tcttccaaag ctggcaaggg atgtctgcag tgatggtcac ggctgggaatc
3361 aaggccttct ggtaccggag tcttgtcttc agtctcgctt atccattcag ctggtgtgtg
3421 tcaccgggct tttaagtgtc cagagcagga tgctgtttaa tatctccca gctccaagt
3481 gccaaagctta agggaacagt ctgtcgga ta gactctatcc attgtgctc ataggttcca
3541 ccaaccctct ctggggagtt ttgctcactc atagaacta acattttcaa cagtgtttaa
3601 caatgctcca tctgcacca gccacgttag tcgcttagtc tctggctcag cctagctgag
3661 tggtaacctc acctccctg caacaaggca aggagttctg cccggcactt atgataggca
3721 gccagggtac caatacttgc cacaaggagc agtatttaac gtaaccggag cagtctgcgc
3781 ggcggtttta cgttaagggg gggggggggg gcgggctgac caaggccctt ggtcagctcc
3841 gctcgttggg ggcgctctca ggtgcagact c

```

//

①



GenCore version 6.3
Copyright (c) 1993 - 2009 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 16, 2009, 05:20:38 ; Search time 3986 Seconds
(without alignments)
98157.397 Million cell updates/sec

Title: US-10-593-216-1
Perfect score: 3871
Sequence: 1 gctagccccaatatatatat.....gcgcctctcaggtgcgagctc 3871

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 87455243 seqs, 50535937365 residues

Total number of hits satisfying chosen parameters: 174910486

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : EST:*
1: gb_est1:*
2: gb_est2:*
3: gb_est3:*
4: gb_est4:*
5: gb_est5:*
6: gb_est6:*
7: gb_est7:*
8: gb_est8:*
9: gb_est9:*
10: gb_est10:*
11: gb_est11:*
12: gb_est12:*
13: gb_est13:*
14: gb_est14:*
15: gb_est15:*
16: gb_est16:*
17: gb_est17:*
18: gb_est18:*
19: gb_est19:*
20: gb_gss1:*
21: gb_gss2:*
22: gb_gss3:*
23: gb_gss4:*
24: gb_gss5:*
25: gb_gss6:*
26: gb_gss7:*

SUMMARIES

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	649	16.8	649	20	AZ660697	AZ660697 IM0538K24
2	588	15.2	589	20	AZ304757	AZ304757 IM0004O24
c 3	382.6	9.9	1155	26	FT198756	FT198756 Rattus no
c 4	364.4	9.4	755	26	DH617701	DH617701 Rattus no
c 5	261.4	6.8	475	1	AI834890	AI834890 UI-M-AN1-
c 6	260	6.7	472	2	AW494798	AW494798 UI-M-BH3-
c 7	182.4	4.7	719	5	BU709003	BU709003 UI-M-EW0-
c 8	182	4.7	682	20	AZ957718	AZ957718 2M0224L10

9	179	4.6	684	26	CR181634	CR181634 Reverse s
c 10	179	4.6	891	26	CR209361	CR209361 Forward s
c 11	179	4.6	893	26	CR196564	CR196564 Forward s
c 12	177.6	4.6	652	20	AZ461261	AZ461261 1M0267K06
c 13	176.6	4.6	445	26	EF907283	EF907283 Mus muscu
c 14	176.2	4.6	584	26	CR207502	CR207502 Reverse s
c 15	175.4	4.5	748	26	CR257483	CR257483 Forward s
c 16	175.2	4.5	683	20	AZ973110	AZ973110 2M0247P11
c 17	175.2	4.5	738	20	AZ855918	AZ855918 2M0160T09
c 18	172.2	4.4	429	26	CR246796	CR246796 Reverse s
c 19	171.4	4.4	716	20	AZ382269	AZ382269 1M0139L17
c 20	171	4.4	708	2	BB638711	BB638711 BB638711
c 21	170.6	4.4	661	20	AZ104082	AZ104082 RPCI-23-3
c 22	170.6	4.4	775	26	CR158875	CR158875 Forward s
c 23	169	4.4	857	26	CR239316	CR239316 Forward s
c 24	166.4	4.3	425	2	BB710027	BB710027 BB710027
c 25	166.2	4.3	609	2	BB642821	BB642821 BB642821
c 26	165.8	4.3	823	20	BH040357	BH040357 RPCI-24-3
c 27	164	4.2	949	26	CR257971	CR257971 Forward s
c 28	163	4.2	751	25	AG606312	AG606312 Mus muscu
c 29	163	4.2	1003	11	DV058930	DV058930 MONTH14_0
c 30	162.4	4.2	752	25	AG535607	AG535607 Mus muscu
c 31	162.4	4.2	958	5	BQ938645	BQ938645 AGENCOURT
c 32	162	4.2	457	7	CJ160607	CJ160607 CJ160607
c 33	160.2	4.1	810	25	BX961826	BX961826 Forward s
c 34	159.4	4.1	547	20	AZ810323	AZ810323 2M0074I18
c 35	159.4	4.1	788	26	CR259801	CR259801 Reverse s
c 36	159.2	4.1	524	8	CN682792	CN682792 E0169F06-
c 37	159.2	4.1	749	6	BY719131	BY719131 BY719131
c 38	159	4.1	535	26	EF948816	EF948816 Mus muscu
c 39	159	4.1	800	25	CR035512	CR035512 Reverse s
c 40	159	4.1	800	26	CR187285	CR187285 Reverse s
c 41	159	4.1	800	26	CR204927	CR204927 Reverse s
c 42	158.8	4.1	376	25	FI167145	FI167145 CMD-GT_5
c 43	158.6	4.1	593	20	AZ319206	AZ319206 1M0038N11
c 44	158.4	4.1	633	20	AZ970507	AZ970507 2M0243J11
c 45	158.2	4.1	677	20	AZ871423	AZ871423 2M0184H18

ALIGNMENTS

RESULT 1
 AZ660697
 LOCUS AZ660697 649 bp DNA linear GSS 14-DEC-2000
 DEFINITION 1M0538K24R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0538K24 R, genomic survey sequence.
 ACCESSION AZ660697
 VERSION AZ660697.1 GI:11797843
 KEYWORDS GSS.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Muridae; Murinae; Mus.
 REFERENCE 1 (bases 1 to 649)
 AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
 JOURNAL Unpublished (2000)
 COMMENT Contact: Robert B. Weiss
 University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0538 row: K column: 24

Seq primer: CACACAGAAACAGCTATGACC

Class: plasmid ends

High quality sequence stop: 649.

FEATURES
source Location/Qualifiers
1..649
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0538K24"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match 16.8%; Score 649; DB 20; Length 649;
Best Local Similarity 100.0%;
Matches 649; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 929 TATTTAAGGGCATGATGTAATGTGTATATATTTTACACAGTACATAGGTTAAATAAA 988
Db 1 TATTTAAGGGCATGATGTAATGTGTATATATTTTACACAGTACATAGGTTAAATAAA 60
Qy 989 GCATGGGCATGATCTCATGTAGTACTTTTATGTTGAAGGCACACTCTGTGCTCCTCTCAAGA 1048
Db 61 GCATGGGCATGATCTCATGTAGTACTTTTATGTTGAAGGCACACTCTGTGCTCCTCTCAAGA 120
Qy 1049 CTCTGTGACATAAGATAGAGTATGGTGGTCTTACTCCAAAGAAACAAACACATAAAATTA 1108
Db 121 CTCTGTGACATAAGATAGAGTATGGTGGTCTTACTCCAAAGAAACAAACACATAAAATTA 180
Qy 1109 GAAACTACCATATCAGGGCTAGAGAGATGGCTCAGCGGTTAAGAGCACTGACTGCTCTTC 1168
Db 181 GAAACTACCATATCAGGGCTAGAGAGATGGCTCAGCGGTTAAGAGCACTGACTGCTCTTC 240
Qy 1169 CGAAGGTCCTGAGTTCAAATACCAAGCAACCATGCTGGCTCACAACCATCTGTAAATGGG 1228
Db 241 CGAAGGTCCTGAGTTCAAATACCAAGCAACCATGCTGGCTCACAACCATCTGTAAATGGG 300
Qy 1229 ATCTGGTGCCCTCTCTGGTGTGTCTACAACCATCTGTAAATGGGATCTGGTGCCCTCTTC 1288
Db 301 ATCTGGTGCCCTCTCTGGTGTGTCTACAACCATCTGTAAATGGGATCTGGTGCCCTCTTC 360
Qy 1289 TGGTGTGTCTGAAGACAGCTAGAGTGTACTTACTGATATAATAAAAAATAAATCTTGGGCC 1348
Db 361 TGGTGTGTCTGAAGACAGCTAGAGTGTACTTACTGATATAATAAAAAATAAATCTTGGGCC 420
Qy 1349 AGAGCAACCAAGGTCCTGTATTCAATTCCAGCAACCATGATGGCTCACAACCTGTA 1408
Db 421 AGAGCAACCAAGGTCCTGTATTCAATTCCAGCAACCATGATGGCTCACAACCTGTA 480

← SEQ ID NO: 1

```

Qy      1409  CAGCTACAGTGTGCTCACATACATATATAATAATAATACTAGAGAAAAAAGAGAG 1468
          |||||||
Db      481  CAGCTACAGTGTGCTCACATACATATATAATAATACTAGAGAAAAAAGAGAG 540
          |||||||
Qy      1469  AGAAGAAACTACCATCTTTGGTCGATGAGAAGGCACAAATTAGAAAAGGCGTGACCAGA 1528
          |||||||
Db      541  AGAAGAAACTACCATCTTTGGTCGATGAGAAGGCACAAATTAGAAAAGGCGTGACCAGA 600
          |||||||
Qy      1529  ATGACCTTTGGTGAAGAAGGGGCCAGCTTCAAAAATTGTGCTCTGAAC 1577
          |||||||
Db      601  ATGACCTTTGGTGAAGAAGGGGCCAGCTTCAAAAATTGTGCTCTGAAC 649
          |||||||
    
```

RESULT 2

AZ304757

LOCUS

AZ304757 589 bp DNA linear GSS 29-SEP-2000

DEFINITION

IM0004024R Mouse 10kb plasmid UUGCLM library Mus musculus genomic clone UUGCLM0004024 R, genomic survey sequence.

ACCESSION

AZ304757

VERSION

AZ304757.1 GI:10341090

KEYWORDS

GSS.

SOURCE

Mus musculus (house mouse)

ORGANISM

Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Muridae; Muridae; Mus.

REFERENCE

AUTHORS

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.

TITLE

Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL

Unpublished (2000)

COMMENT

Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0004 row: 0 column: 24
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 589.

FEATURES

source

Location/Qualifiers

1..589

/organism="Mus musculus"

/mol_type="genomic DNA"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UUGCLM0004024"

/sex="Male"

/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"

/clone_lib="Mouse 10kb plasmid UUGCLM library"

/note="Vector: FWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number